Abstract of the Disclosure

mcz 7/17/02 An optical waveguide ~~comprising~~ with at least a guiding lamina (10) of optical material bonded by direct interfacial bonding to a superstructure lamina (20) of optical material, in which regions of the guiding lamina have modified optical properties so as to define a light guiding path along the guiding lamina. In a particular example, a periodically poled $LiNbO_3$ planar waveguide is buried in $LiTaO_3$ by direct interfacial bonding and precision polishing techniques and used in an optical frequency doubling system.